



11244 Pyrites Way • Gold River, CA 95670
Phone 916 851 0174 • Fax 916 851 0177 • Toll Free 1 800 242 5249

November 11, 2005

Ms. Joan Fleck
North Coast Regional Water Quality Control Board
5550 Skylane Boulevard, Suite A
Santa Rosa, California 95403

Subject: **Third Quarter 2005 Groundwater Monitoring Report**
Rotten Robbie Service Station No. 40
2515 Guerneville Road, Santa Rosa, Sonoma County, California
Apex Project # ROB01 001

Dear Ms. Fleck:

Apex Envirotech, Inc (Apex), has been authorized by Robinson Oil Corporation (Robinson Oil) to provide this report documenting the results of groundwater monitoring. This report covers site activities for the third quarter groundwater monitoring event performed on September 16, 2005. Groundwater monitoring results are provided in the attached figures and tables. Apex standard operating procedures, field data, and analytical results are provided as attachments.

This report is based in part on information obtained from Robinson Oil and is subject to modification as newly acquired information warrants.

BACKGROUND

November 1991 - On-Site Technologies, Inc. (OST) prepared a Remedial Investigation/Feasibility Study report recommending soil and groundwater remediation through groundwater extraction treatment.

December 15, 1995 - OST recommended a soil vapor extraction (SVE) and air sparge (AS) system be coupled with the groundwater extraction treatment as a more beneficial and cost effective remedial technology

June 26, 1996 - OST proposed annual groundwater monitoring be conducted at the subject site, and groundwater extraction and treatment be supplemented with SVE/AS.

January 29, 1998 - The North Coast Regional Water Quality Control Board (NCRWQCB) issued a letter, requesting a feasibility study be prepared proposing alternative remediation technologies.

April 20, 1999 - ATC Associates, Inc. submitted a *Remedial Action/Feasibility Study and Corrective Action Plan*, proposing active dual phase extraction.

April 20, 2003 - Based on groundwater contamination at the subject site, the NCRWQCB proposed deferring implementation of a remediation system and continue groundwater monitoring activities.

July 24, 2004 - Apex submitted a workplan, *Workplan for Installation of Ozone Sparging Remediation System*, proposing the installation of an ozone sparge system at the subject site, and other remedial alternatives.

December 3, 2004 - The NCRWQCB issued a letter (Appendix D) recommending that the ozone sparge remediation system be permitted through the Santa Rosa Fire and Community Development Department. In addition, the NCRWQCB requested that well MW-11 from the Former Crossroads Beacon site be included in Apex's quarterly sampling schedule. The approved remediation system at the site will be installed concurrently with pending site demolition and reconstruction.

GENERAL SITE INFORMATION

Site name:	Rotten Robbie Service Station #40
Site address:	2515 Guerneville Road, Santa Rosa
Responsible party:	Robinson Oil Corporation
Current site use:	Fuel station
Current phase of project:	Groundwater monitoring
Tanks at site:	4 USTs
Number of wells:	7 Monitoring wells (4 onsite, 3 offsite)

GROUNDWATER MONITORING SUMMARY

Gauging and sampling date: September 16, 2005
Wells gauged and sampled: MW-1 through MW-6 and MW-8
Wells gauged only: None
Wells sampled only: None
Groundwater flow direction: South-southwest
Groundwater gradient: 0.026 ft/ft
Floating liquid hydrocarbon: None
Laboratory: Kiff Analytical, Davis, California

Analysis:

Analysis	Abbreviation	Designation	USEPA Method No.	
Total Petroleum Hydrocarbons as Gasoline	TPHg	Gas-Range Hydrocarbon	8260B	
Benzene	BTEX	Aromatic Volatile Organics		
Toluene				
Ethylbenzene				
Xylenes (Total)				
Methyl Butyl Alcohol	MTBE	Five Fuel Oxygenates		
Di-Isopropyl Ether	DIPE			
Ethyl Tertiary Butyl Ether	ETBE			
Tertiary Amyl Methyl Ether	TAME			
Tertiary Butal Alcohol	TBA	Lead Scavengers		
1,2-Dichloroethane	1,2-DCA			
Ethylene Dibromide	EDB			

Modifications from Standard Monitoring Program:

None

CONCLUSIONS

It should be noted that on September 14, 2005, Apex personnel located groundwater monitoring well MW-8 buried in a planter across the street from the site and the two previous concentrations noted for well MW-8 were collected from the wrong well, do not represent groundwater conditions at the well, and have been removed from Table 3.

Groundwater analytical results show detectable concentrations of TPHg at wells MW-1, MW-5, MW-6 and MW-8 ranging from 52 to 6,600 micrograms per liter (ug/L). These concentrations are within historical limits for all four wells.

Groundwater analytical results show detectable concentrations of benzene at in wells MW-1, MW-5 and MW-6 ranging from 7.3 to 1,100 ug/L, respectively. These concentrations are within historical limits.

Groundwater analytical results show detectable concentrations of MTBE at all seven groundwater monitoring wells (MW-1 through MW-6 and MW-8), and historical highs at well MW-2. Concentrations ranged from at 0.68 to 170 ug/L. These concentrations are within historic limits for all seven wells.

Groundwater elevation decreased an average of 2.39 feet compared with last quarter.

The benzene plume is defined.

RECOMMENDATIONS

Apex recommends continued quarterly groundwater monitoring. The next sampling event is scheduled for December 2005.

Installation of the approved ozone sparge system is currently pending the demolition and reconstruction of the site. As requested, Apex is preparing a workplan to conduct a limited subsurface investigation beneath the existing dispenser area during demolition activities.

ADDITIONAL ACTIVITIES PERFORMED AT SITE

Apex located Robinson Oil well MW-8 on September 14, 2005, buried in a planter. The site plan map provided by ATC depicted the Former Crossroads Beacon well MW-8 as Robinson Oil well MW-8.

ATTACHMENTS:

Figure 1: Site Vicinity Map
Figure 2: Site Plan Map
Figure 3: Groundwater Contour Map: September 16, 2005
Figure 4: TPHg in Groundwater Isoconcentration Map: September 16, 2005
Figure 5: Benzene in Groundwater Isoconcentration Map: September 16, 2005
Figure 6: MTBE in Groundwater Isoconcentration Map: September 16, 2005

Table 1: Well Construction Details
Table 2: Groundwater Elevation Data
Table 3: Groundwater Analytical Data

Appendix A: Apex Standard Operating Procedures
Appendix B: Field Data Sheet
Appendix C: Laboratory Analytical Report and Chain of Custody Form
Appendix D: NCRWQCB letter dated December 3, 2004

REPORT DISTRIBUTION

A copy of this report was submitted to:

Regulatory Oversight: Mr Jeff Tarter
City of Santa Rosa Fire Department
955 Sonoma Avenue
Santa Rosa, California 95404
(707) 543-3500

Ms. Joan Fleck
North Coast Regional Water Quality Control Board
5550 Skylane Boulevard, Suite A
Santa Rosa, California 95403
(707) 576-2220

Responsible Party: Mr. Thomas L. Robinson
Robinson Oil Corporation
4250 Williams Road
San Jose, California 95129
(408) 869-2969

cc: Mr. Brian Wingard
Winzler & Kelley
495 Tesconi Circle
Santa Rosa, California 95401
(707) 523-1010

Mr. Ron Nicholson
RM Associates
16401 Meadow Vista Drive, Suite 102
Pioneer, California 95666

REMARKS/SIGNATURES

The information contained within this report reflects our professional opinions and was developed in accordance with currently available information, and accepted hydrogeologic and engineering practices.

The work described above was performed under the direct supervision of the professional geologist, registered with the State of California, whose signature appears below.

We appreciate the opportunity to provide Robinson Oil geologic, engineering and environmental consulting services, and trust this report meets your needs. If you have any questions or comments, please call us at (916) 851-0174.

Sincerely,

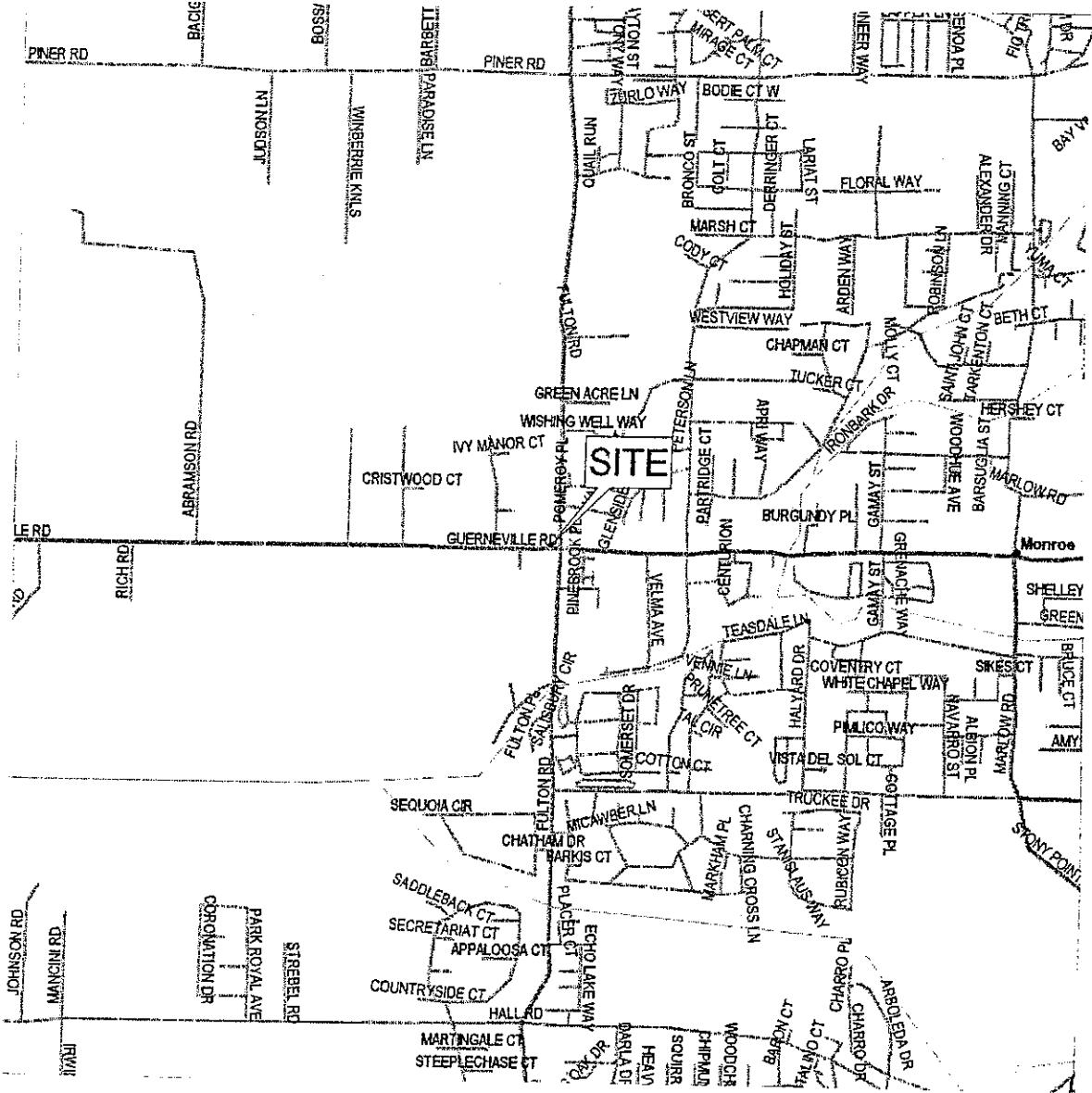
APEX ENVIROTECH, INC.

Kelli Feltner Jr.
Rebekah A. Westrup
Project Manager

M.Sgourakis
Michael S. Sgourakis R.G.
Senior Project Manager
CRG # 7194



FIGURES



0 2,000 4,000

Approximate Scale
1 inch = 2,000 feet

DRAWN BY: J. Curry
DATE: 05/11/05

REVISIONS

SITE VICINITY MAP

Rotten Robbies
2515 Guerneville Road
Santa Rosa, California

FIGURE

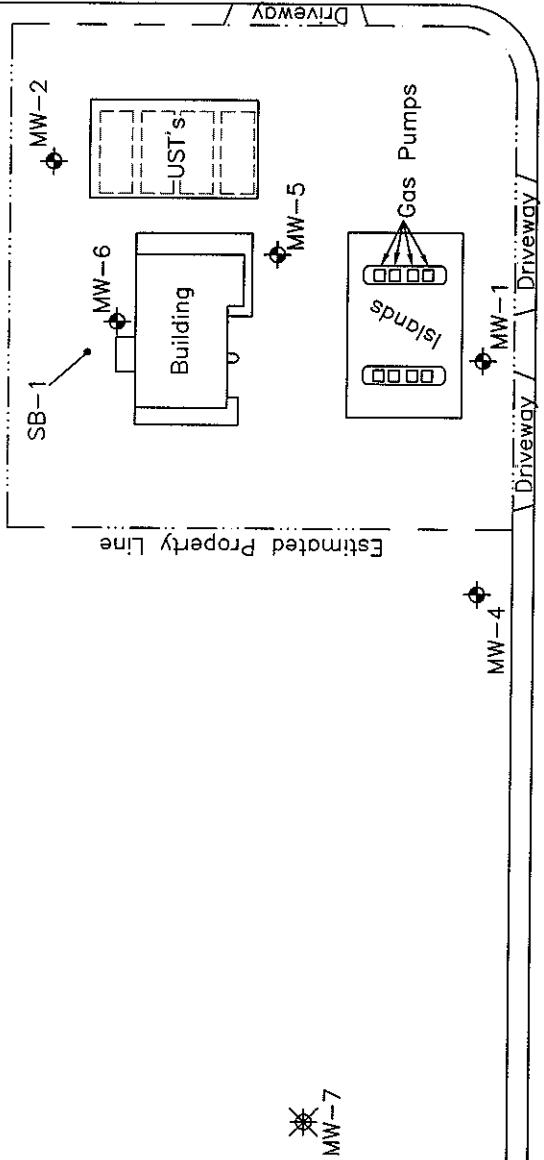
1

PROJECT NUMBER:
ROB01.001



MW-3

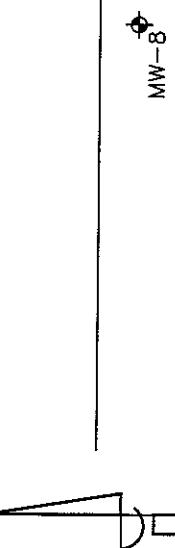
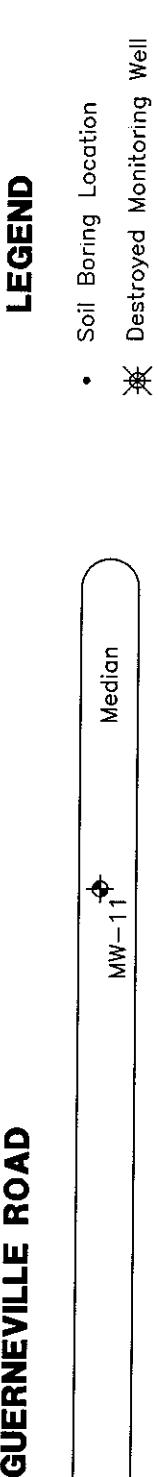
FULTON ROAD



GUERNVILLE ROAD

LEGEND

- Soil Boring Location
- Destroyed Monitoring Well
- Groundwater Monitoring Well

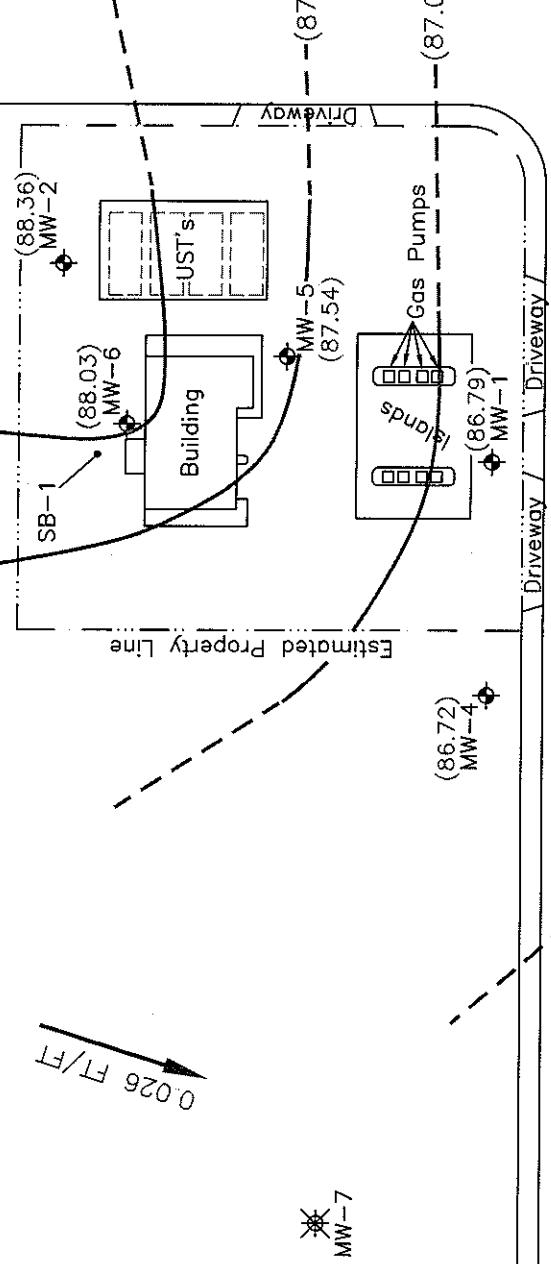


DRAWN BY: J. Curry DATE: 10/19/05		REVISIONS	
APEX ENVROTECH, INC.			
FIGURE 2		PROJECT NUMBER: ROB01.001	
SITE PLAN MAP		Rotten Robbies 2515 Guerneville Road Santa Rosa, California	

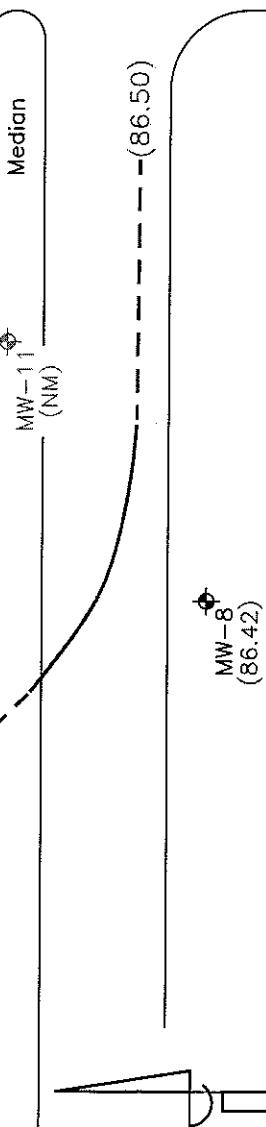
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Approximate Scale
1 inch = 20 feet

FULTON ROAD



GUERNVILLE ROAD



LEGEND

- Soil Boring Location
- ✖ Destroyed Monitoring Well
- ◆ Groundwater Monitoring Well
- ◆ Not Measured
- (88.00) - Groundwater Contour Line;
Dashed Where Inferred
(Contour Interval = 0.50 ft.)
- (86.50) - Approximate Groundwater
Gradient And Flow
Direction

GROUNDWATER CONTOUR MAP, SEPTEMBER 16, 2005

DRAWN BY:	J. Curry
DATE:	11/8/05
REVISIONS	

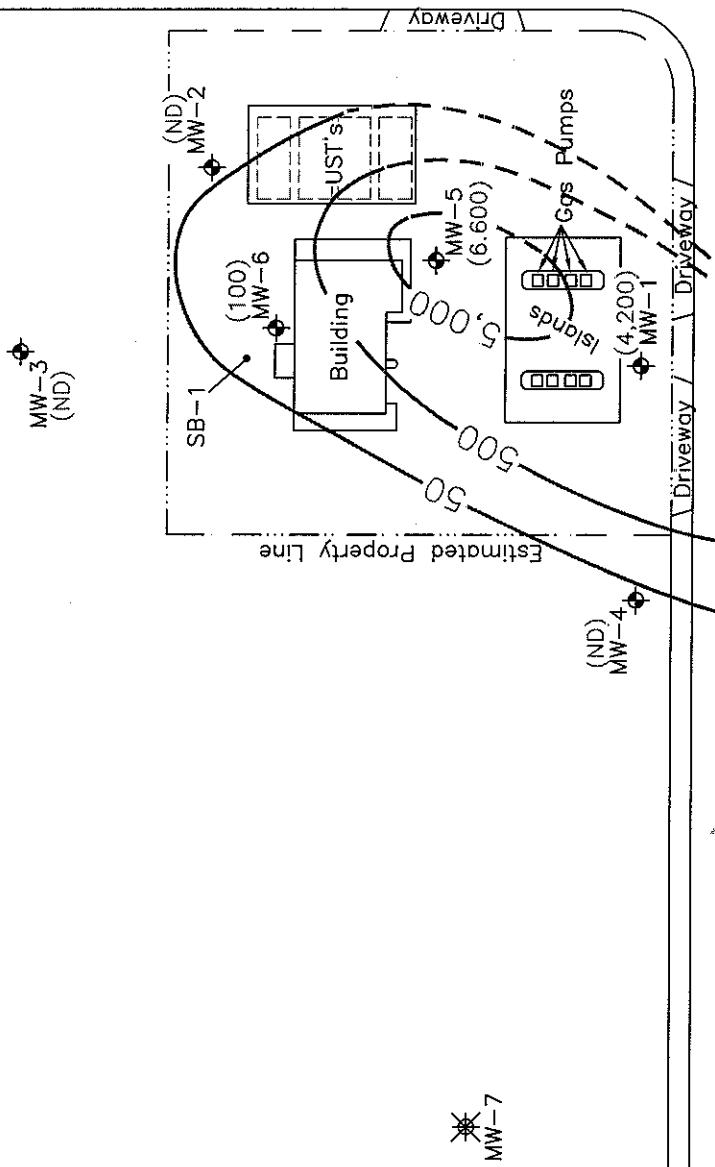


N
0 20 40
Approximate Scale
1 inch = 20 feet

FIGURE
3

PROJECT NUMBER:
ROB01.001

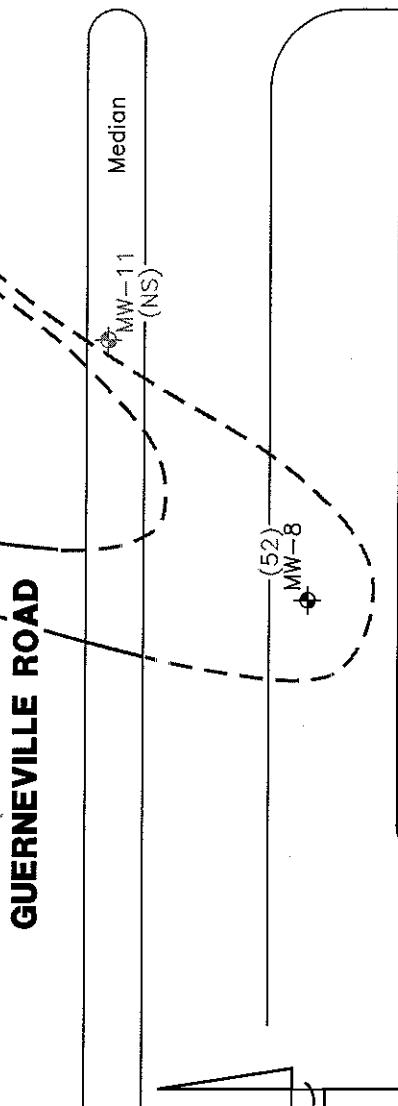
FULTON ROAD



LEGEND

- Soil Boring Location
- ※ Destroyed Monitoring Well
- ◆ Groundwater Monitoring Well
- (6,600) Concentration Of TPHg In Groundwater Measured In ug/L
- 5,000 - Line Of Equal Concentration Of TPHg In Groundwater Measured In ug/L; Dashed Where Interred
- (ND) Not Detected
- (NS) Not Sampled

GUERNEVILLE ROAD



DRAWN BY:	J. Curry
DATE:	11/8/05
REVISIONS	



**TPHg IN GROUNDWATER ISOCONCENTRATION
MAP, SEPTEMBER 16, 2005**

N

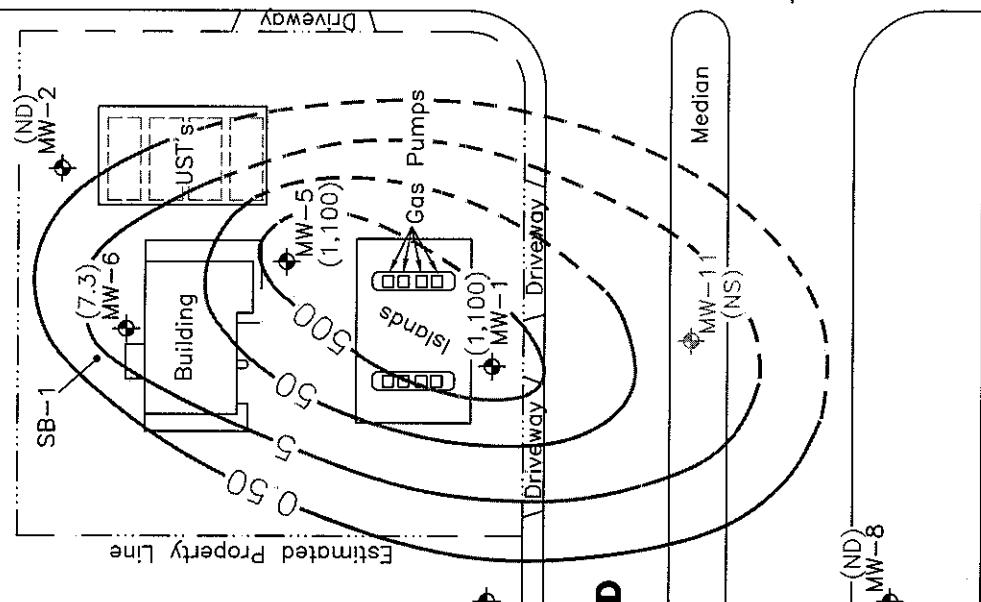
0 20 40
Approximate Scale
1 inch = 20 feet

**FIGURE
4**

PROJECT NUMBER:
ROB01.001

Rotten Robbies
2515 Guerneville Road
Santa Rosa, California

FULTON ROAD



LEGEND

- Soil Boring Location
- ✗ Destroyed Monitoring Well
- ◆ Groundwater Monitoring Well
- (1,100) Concentration Of Benzene In Groundwater Measured In ug/L
- Line Of Equal Concentration Of Benzene In Groundwater Measured In ug/L; Dashed Where Inferred
- 500
- (ND) Not Detected
- (NS) Not Sampled

**BENZENE IN GROUNDWATER ISOCONCENTRATION
MAP, SEPTEMBER 16, 2005**

**FIGURE
5**

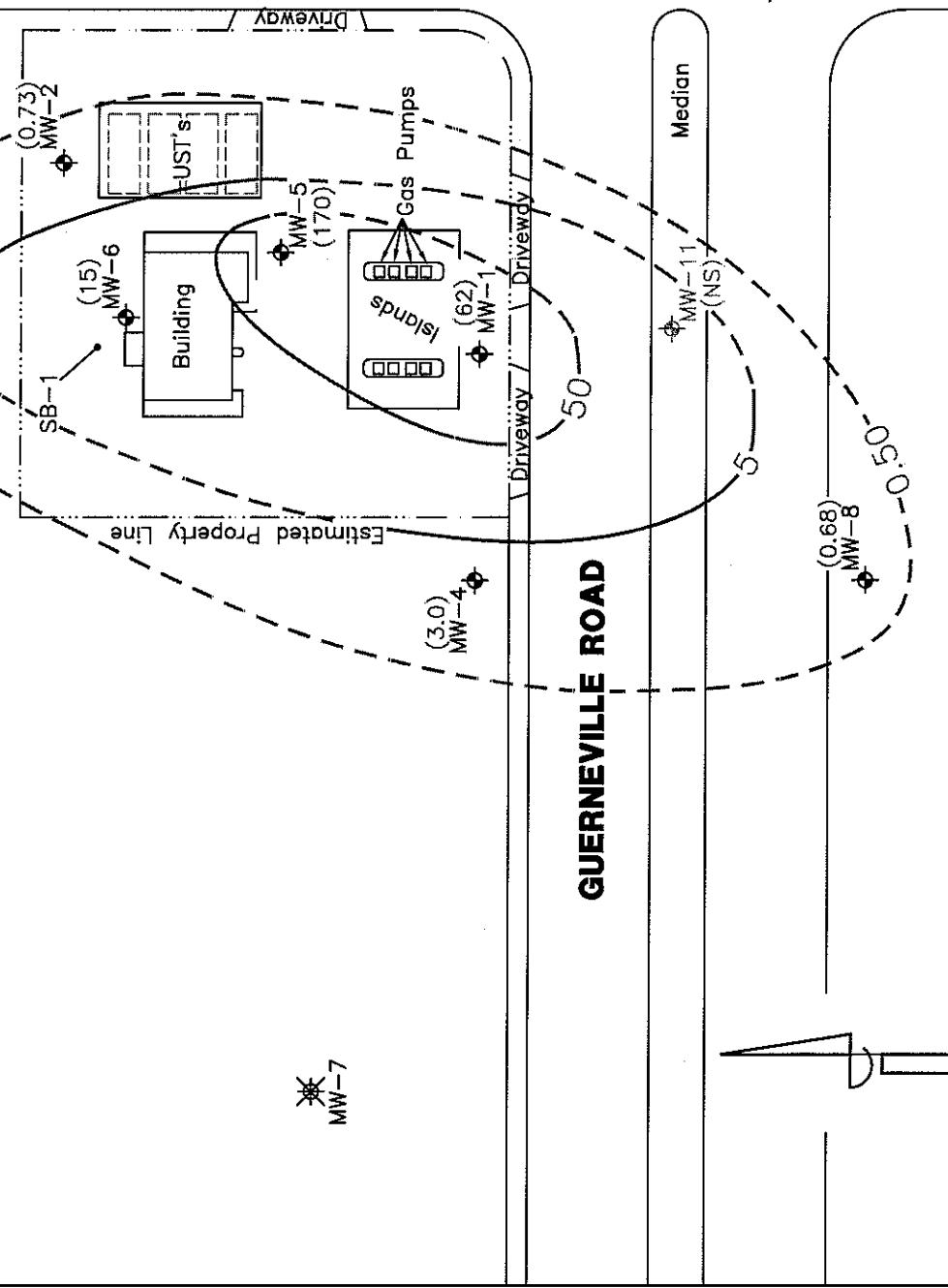
PROJECT NUMBER:
ROB01.001

DRAWN BY:	J. Curry
DATE:	11/8/05
REVISIONS	



N
0 20 40
Approximate Scale
1 inch = 20 feet

FULTON ROAD



DRAWN BY: J. Curry DATE: 11/8/05 REVISIONS	MTBE IN GROUNDWATER ISOCONCENTRATION MAP, SEPTEMBER 16, 2005	FIGURE 6
APEX ENVIROTECH, INC.	Rotten Robbies 2515 Guerneville Road Santa Rosa, California	PROJECT NUMBER: ROB01.001

TABLES

TABLE 1
WELL CONSTRUCTION DETAILS
Rotten Robbie Service Station No 40
2515 Guerneville Road, Santa Rosa, California

Well Number	Well Installation Date	Elevation TOC (feet)	Casing Material	Total Depth (feet)	Well Depth (feet)	Casing Diameter (inches)	Screened Interval (feet)	Filter Pack Interval (feet)
MW-1	10/25/89	95.37	---	30	30	4	8 - 30	6 - 30
MW-2	10/25/89	95.81	---	20	20	4	7 - 20	5 - 20
MW-3	10/26/89	94.50	---	20	20	4	7 - 20	5 - 20
MW-4	6/12/90	94.50	---	18.3	18.3	4	6 - 18.2	5 - 18.2
MW-5	6/12/90	96.44	---	18.3	18.3	4	6 - 18.2	5 - 18.2
MW-6	6/12/90	96.69	---	18.3	18.3	4	6 - 18.2	5 - 18.2
MW-8	5/24/91	95.53	---	19	19	4	7 - 19	5 - 19
MW-11		96.28		—	—	—	—	—

Notes:

--- = Information not available

TOC = Top of Casing

MW-11 is the responsibility of a separate consultant

TABLE 2
GROUNDWATER ELEVATION DATA
 Rotten Robbie Service Station #40
 2515 Guerneville Road, Santa Rosa, California
 (All measurements are in feet)

Monitoring Well	Date	Reference Elevation* (MSL)	Depth to Groundwater (Feet)	Groundwater Elevation Feet)	Groundwater Flow Direction
MW-1	9/16/93	95.36	8.36	87.00	
	12/9/93		8.66	86.70	
	4/4/94		7.83	87.53	
	7/29/94		9.80	85.56	
	9/22/94		10.38	84.98	
	10/13/94		10.03	85.33	
	4/18/95		6.15	89.21	
	10/6/95		10.26	85.10	
	2/7/96		4.77	90.59	
	5/1/97		8.22	87.14	
	12/3/97		7.21	88.15	
	3/17/98		6.04	89.32	
	6/10/98		7.68	87.68	
	9/30/98		9.64	85.72	
	3/16/99		5.71	89.65	
	11/2/99	95.37	9.40	85.97	
	9/16/00		7.96	87.41	
	10/3/00		9.50	85.87	
	1/9/01		8.85	86.52	
	7/12/01		8.78	86.59	
	1/4/02		4.92	90.45	
	6/11/02		8.15	87.22	
	12/18/02		5.38	89.99	
	3/27/03		6.43	88.94	
	9/25/03		9.34	86.03	
	3/24/05		5.02	90.35	SW
	5/13/05		5.80	89.57	S
	9/16/05		8.58	86.79	S
MW-2	9/16/93	95.84	8.81	87.03	
	12/9/93		7.89	87.95	
	4/4/94		6.69	89.15	
	7/29/94		8.10	87.74	
	9/22/94		8.51	87.33	
	10/13/94		8.14	87.70	
	4/18/95		5.11	90.73	
	10/6/95		8.75	87.09	
	2/7/96		4.87	90.97	
	5/1/97		6.73	89.11	
	12/3/97		6.90	88.94	
	3/17/98		4.98	90.86	
	6/10/98		6.16	89.68	
	9/30/98		8.30	87.54	
	3/16/99		5.02	90.82	
	11/2/99	95.81	8.47	87.34	
	6/16/00		6.96	88.85	
	10/3/00		8.36	87.45	
	1/9/01		8.12	87.69	
	1/4/02		4.73	91.08	
	6/11/02		7.15	88.66	
	12/18/02		6.77	89.04	
	3/27/03		6.28	89.53	
	9/25/03		8.14	87.67	
	3/24/05		5.16	90.65	SW
	5/13/05		5.18	90.63	S
	9/16/05		7.45	88.36	S

TABLE 2
GROUNDWATER ELEVATION DATA
Rotten Robbie Service Station #40
2515 Guerneville Road, Santa Rosa, California
(All measurements are in feet)

Monitoring Well	Date	Reference Elevation* (MSL)	Depth to Groundwater (Feet)	Groundwater Elevation (Feet)	Groundwater Flow Direction
MW-3	9/16/93	95.80	8.06	87.74	
	12/9/93		6.48	89.32	
	4/4/94		6.23	89.57	
	7/29/94		6.54	89.26	
	9/22/94		7.01	88.79	
	10/13/94		6.57	89.23	
	4/18/95		3.81	91.99	
	10/6/95		7.70	88.10	
	2/7/96		3.77	92.03	
	5/1/97		5.49	90.31	
	12/3/97		5.37	90.43	
	3/17/98		4.40	91.40	
	6/10/98		4.98	90.82	
	9/30/98		7.11	88.69	
	3/16/99		4.57	91.23	
	11/2/99	95.79	7.56	88.23	
	6/16/00		6.73	89.06	
	10/3/00		7.06	88.73	
	1/9/01		7.74	88.05	
	1/4/02		4.31	91.48	
	6/11/02	94.50	7.22	87.28	
	12/18/02		5.62	88.88	
	3/27/03		8.16	86.34	
	9/25/03		5.93	88.57	
	3/24/05		4.12	90.38	SW
	5/13/05		4.45	90.05	S
	9/16/05		6.57	87.93	S
MW-4	9/16/93	94.02	9.30	84.72	
	12/9/93		7.39	86.63	
	4/4/94		6.81	87.21	
	7/29/94		8.59	85.43	
	9/22/94		9.27	84.75	
	10/13/94		---	---	
	4/18/95		5.32	88.70	
	10/6/95		---	---	
	2/7/96		3.99	90.03	
	5/1/97		7.14	86.88	
	12/3/97		6.19	87.83	
	3/17/98		5.27	88.75	
	6/10/98		6.81	87.21	
	9/30/98		8.61	85.41	
	3/16/99		5.06	88.96	
	11/2/99	94.50	8.19	86.31	
	6/16/00		7.05	87.45	
	10/3/00		8.41	86.09	
	1/9/01		7.92	86.58	
	1/4/02		4.05	90.45	
	6/11/02		7.22	87.28	
	12/18/02		4.38	90.12	
	3/27/03		5.57	88.93	
	9/25/03		8.48	86.02	
	3/24/05		---	---	SW
	5/13/05		5.07	89.43	S
	9/16/05		7.78	86.72	S

TABLE 2
GROUNDWATER ELEVATION DATA
 Rotten Robbie Service Station #40
 2515 Guerneville Road, Santa Rosa, California
 (All measurements are in feet)

Monitoring Well	Date	Reference Elevation* (MSL)	Depth to Groundwater (Feet)	Groundwater Elevation Feet)	Groundwater Flow Direction
MW-5	9/16/93	96.01	10.61	85.40	
	12/9/93		9.22	86.79	
	4/4/94		7.99	88.02	
	7/29/94		9.87	86.14	
	9/22/94		10.43	85.58	
	10/13/94		8.20	87.81	
	4/18/95		6.75	89.26	
	10/6/95		10.42	85.59	
	2/7/96		6.51	89.50	
	5/1/97		8.41	87.60	
	12/3/97		7.89	88.12	
	3/17/98		5.89	90.12	
	6/10/98		7.30	88.71	
	9/30/98		9.77	86.24	
	3/16/99		6.03	89.98	
	11/2/99	96.44	9.84	86.60	
	6/16/00		8.27	88.17	
	10/3/00		9.81	86.63	
	1/9/01		9.31	87.13	
	7/12/01		9.17	87.27	
	1/4/02		6.02	90.42	
	6/11/02		8.22	88.22	
	12/18/02		8.30	88.14	
	3/27/03		6.76	89.68	
	9/25/03		9.24	87.20	
	3/24/05		7.31	89.13	SW
	5/13/05		6.59	89.85	S
	9/16/05		8.90	87.54	S
MW-6	9/16/93	96.22	10.33	85.89	
	12/9/93		9.21	87.01	
	4/4/94		7.69	88.53	
	7/29/94		9.38	86.84	
	9/22/94		9.92	86.30	
	10/13/94		8.68	87.54	
	4/18/95		6.12	90.10	
	10/6/95		10.10	86.12	
	2/7/96		5.76	90.46	
	5/1/97		8.08	88.14	
	12/3/97		7.96	88.26	
	3/17/98		5.93	90.29	
	6/10/98		7.78	88.44	
	9/30/98		9.45	86.77	
	3/16/99		5.98	90.24	
	11/2/99	96.69	9.68	87.01	
	6/16/00		8.06	88.63	
	10/3/00		9.47	87.22	
	1/9/01		9.29	87.40	
	7/12/01		8.91	87.78	
	1/4/02		5.40	91.29	
	6/11/02		8.11	88.58	
	12/18/02		7.82	88.87	
	3/27/03		6.76	89.93	
	9/25/03		9.15	87.54	
	3/24/05		5.68	91.01	SW
	5/13/05		6.13	90.56	S
	9/16/05		8.66	88.03	S

TABLE 2
GROUNDWATER ELEVATION DATA
 Rotten Robbie Service Station #40
 2515 Guerneville Road, Santa Rosa, California
 (All measurements are in feet)

Monitoring Well	Date	Reference Elevation* (MSL)	Depth to Groundwater (Feet)	Groundwater Elevation Feet)	Groundwater Flow Direction
MW-7	9/16/93	93 44	8 59	84 85	
	12/9/93		6.79	86 65	
	4/4/94		6 07	87.37	
	7/29/94		8 33	85 11	
	9/22/94		8 69	84 75	
	10/13/94		---	---	
	4/19/95		4 71	88.73	
	10/6/95		Destroyed		
MW-8	9/16/93	93 07	8.83	84 24	
	12/9/93		7 27	85 80	
	4/4/94		5 94	87.13	
	7/29/94		8 30	84 77	
	9/22/94		8 93	84 14	
	10/13/94		---	---	
	4/18/95		---	---	
	10/6/95		---	---	
	2/7/96		---	---	
	3/17/98		4 24	88 83	
	6/10/98		7 88	85 19	
	9/30/98		8 25	84 82	
	3/16/99		4 26	88 81	
	11/2/99	93.53	7 67	85 86	
	6/16/00		6 49	87 04	
	10/3/00		7 88	85.65	
	1/9/01		6 90	86 63	
	1/4/02		3 07	90 46	
	6/11/02		6 58	86 95	
	12/18/02		3 59	89 94	
	3/27/03		4 99	88 54	
	9/25/03		8 01	85 52	
	3/24/05		4 25	89 28	SW
MW-11	5/13/05	96.28	5 11	88 42	S
	9/16/05		7.11	86 42	S
	3/24/05		---	---	

Note

--- -Measurement not taken

All measurement are in feet

MSL -Monitoring wells surveyed by Apex to msl

MW-11 is the responsibility of another consultant

TABLE 3
GROUNDWATER ANALYTICAL DATA
Rotten Robbie Service Station #40
2515 Guerneville Road, Santa Rosa, California

Sample ID	Date	TPH as Diesel		Benzene	Toluene	Ethyl benzene	Total Xylenes	MTBE (ug/L)	Five Fuel Oxygenates			1,2-DCA (ug/L)	EDB (ug/L)
		Gasoline (ug/L)	Diesel (ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	(ug/L)	(ug/L)
MW-1	10/27/90	ND	ND	1.6	4.4	1.0	4.0	4.0	—	—	—	—	—
	3/21/90	140	280	20	0.30	1.9	1.4	—	—	—	—	—	—
	6/13/90	420	ND	93	5.5	8.4	1.1	—	—	—	—	—	—
	9/18/90	170	ND	28	1.3	2.5	4.9	—	—	—	—	—	—
	12/20/90	ND	60	8.9	0.40	1.0	0.90	—	—	—	—	—	—
	3/20/91	91	ND	11	ND	2.0	1.0	—	—	—	—	—	—
	6/19/91	89	ND	23	1.6	3.4	5.3	—	—	—	—	—	—
	9/26/91	120	ND	36	ND	11	9.7	—	—	—	—	—	—
	10/30/91	78	ND	0.80	ND	ND	ND	—	—	—	—	—	—
	3/18/92	ND	ND	2.8	ND	ND	ND	—	—	—	—	—	—
	6/17/92	ND	ND	11	ND	1.6	1.5	—	—	—	—	—	—
	9/24/92	210	—	16	0.9	1.9	2.5	—	—	—	—	—	—
	12/10/92	220	—	7.4	ND	1.6	2.2	—	—	—	—	—	—
	3/9/93	190	—	2.4	ND	1.0	1.2	—	—	—	—	—	—
	9/16/93	280	—	37	3.5	6.8	8.8	—	—	—	—	—	—
	4/4/94	160	—	14	0.50	1.5	2.1	—	—	—	—	—	—
	10/13/94	370	—	67	3.5	5.8	10	—	—	—	—	—	—
	4/18/95	380	—	59	3.0	2.6	9.2	—	—	—	—	—	—
	10/6/95	1,100	—	220	5.8	9.3	21	—	—	—	—	—	—
	2/7/96	200	—	54	ND	1.3	3.4	120	—	—	—	—	—
	5/1/97	1,200	—	240	8.1	14	34	130	—	—	—	—	—
	12/3/97	540	—	130	1.3	4.3	7.1	210	—	—	—	—	—
	3/17/98	320	—	89	0.69	3.0	3.7	230	—	—	—	—	—
	6/10/98	7,000	—	2,500	71	140	390	130	—	—	—	—	—
	9/30/98	1,700	—	790	9.6	17	49	340	—	—	—	—	—
	3/16/99	970	—	300	8.6	5.5	20	210	—	—	—	—	—
	11/2/99	760	—	190	<2.5	5.6	11	130	—	—	—	—	—
	6/16/00	1,100	—	330	6.8	10	22	260	—	—	—	—	—
	10/3/00	2,000	—	480	8.1	45	41	240	—	—	—	—	—
	1/9/01	780	—	140	1.8	2.7	12	210	—	—	—	—	—
	7/12/01	2,500	—	860	25	120	210	230	—	—	—	—	—
	1/4/02	990	—	130	4.0	2.1	11	290	—	—	—	—	—
	6/11/02	2,600	—	790	13	36	64	290	—	—	—	—	—
	12/18/02	2,300	—	550	<10	<10	<20	340	—	—	—	—	—
	3/27/03	2,700	380	810	48	6.6	41	460	—	—	—	—	—
	9/25/03	3,900	—	1,300	<12.5	18	<25	310	—	—	—	—	—
	3/24/05	3,200	—	320	3.4	17	27	59	1.6	<0.50	660	<0.50	<0.50
	5/13/05	4,300	—	680	12	100	120	74	2.0	<0.50	600	<0.50	<2.0
	9/16/05	4,200	—	10	36	49	62	2.7	<2.0	<2.0	650	<2.0	<2.0

TABLE 3
GROUNDWATER ANALYTICAL DATA
 Rotten Robbie Service Station #40
 2515 Guerneville Road, Santa Rosa, California

Sample ID	Date	TPH as		Benzene	Toluene	Ethyl benzene	Xylenes	Total	Five Fuel Oxygenates			1,2-DCA (ug/L)	EDB (ug/L)
		Gasoline (ug/L)	Diesel (ug/L)						MTBE (ug/L)	DPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	
MW-2	3/9/93	ND	--	ND	ND	ND	ND	ND	ND	--	--	--	--
	9/16/93	ND	--	ND	ND	ND	ND	ND	ND	--	--	--	--
	4/4/94	ND	--	ND	ND	ND	ND	ND	ND	--	--	--	--
	10/13/94	ND	--	ND	ND	ND	ND	ND	ND	--	--	--	--
	4/18/95	ND	--	ND	ND	ND	ND	ND	ND	--	--	--	--
	10/6/95	ND	--	ND	ND	ND	ND	ND	ND	--	--	--	--
	2/7/96	ND	--	ND	ND	ND	ND	ND	ND	--	--	--	--
	5/1/97	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
	3/11/98	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
	6/10/98	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
	9/30/98	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
	3/16/99	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
	11/2/99	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
	6/16/00	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
	10/3/00	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
	1/9/01	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
	7/12/01	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
	1/4/02	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
	6/11/02	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
	12/18/02	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
	3/27/03	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
	9/25/03	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--
	3/24/05	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	5/13/05	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/16/05	<50	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

TABLE 3
GROUNDWATER ANALYTICAL DATA
Rotten Robbie Service Station #40
2515 Guerneville Road, Santa Rosa, California

Sample ID	Date	TPH as		Benzene	Ethyl benzene	Total Xylenes	MTBE	Five fuel Oxygenates			1,2-DCA	EDB
		Gasoline (ug/L)	Diesel (ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	(ug/L)	(ug/L)
MW-3	3/9/93	ND	---	ND	ND	0.60	---	---	---	---	---	---
	4/4/94	ND	---	ND	1.3	ND	ND	---	---	---	---	---
	10/13/94	ND	---	ND	ND	ND	ND	---	---	---	---	---
	4/18/95	ND	---	ND	ND	ND	ND	---	---	---	---	---
	10/6/95	ND	---	ND	ND	ND	ND	---	---	---	---	---
	2/7/96	ND	---	ND	ND	ND	ND	---	---	---	---	---
	5/1/97	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
	3/17/98	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
	6/10/98	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
	9/30/98	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
	3/16/99	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
	11/2/99	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
	6/16/00	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
	10/3/00	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
	1/9/01	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
	7/12/01	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
	1/4/02	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
	6/11/02	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
	12/18/02	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
	3/27/03	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
	9/25/03	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
	3/24/05	<50	---	1.6	1.6	2.1	2.1	2.1	2.1	2.1	---	---
	5/13/05	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
	9/16/05	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW-4	3/9/93	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND
	9/16/93	ND	---	ND	0.50	ND	ND	ND	ND	ND	ND	ND
	4/4/94	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/13/94	---	---	---	---	---	---	---	---	---	---	---
	4/18/95	---	---	---	---	---	---	---	---	---	---	---
	10/6/95	---	---	---	---	---	---	---	---	---	---	---
	2/7/96	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/3/97	<50	---	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	20	20
	5/1/97	<50	---	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	480	480
	3/17/98	75	---	8.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	4.8	4.8
	9/30/98	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	11	11
	3/16/99	140	---	25	7.0	7.0	7.0	7.0	7.0	7.0	14	14
	11/2/99	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	5.7	5.7
	1/9/01	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	8.1	8.1
	1/4/02	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.4	1.4
	6/11/02	<50	---	1.6	1.6	2.1	2.1	2.1	2.1	2.1	0.50	0.50
	3/24/05	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	0.50
	5/13/05	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	3.2	3.2
	9/16/05	<50	---	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	0.50

TABLE 3
GROUNDWATER ANALYTICAL DATA
Rotten Robbie Service Station #40
2515 Guerneville Road, Santa Rosa, California

Sample ID	Date	TPH as		Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	Total (ug/L)	Five Fuel Oxygenates				1,2-DCA (ug/L)	EDB (ug/L)
		Gasoline (ug/L)	Diesel (ug/L)						MTBE (ug/L)	DiPE (ug/L)	EtBE (ug/L)	TAME (ug/L)		
MW-5	6/13/90	4,400	ND	420	490	110	550	—	—	—	—	—	—	—
	9/18/90	10,100	ND	2,600	450	260	800	—	—	—	—	—	—	—
	12/20/90	3,200	ND	460	130	51	180	—	—	—	—	—	—	—
	3/20/91	8,800	ND	1,700	670	170	870	—	—	—	—	—	—	—
	6/19/91	22,000	370	4,000	1,900	460	2,500	—	—	—	—	—	—	—
	9/26/91	21,000	ND	6,400	2,300	780	3,400	—	—	—	—	—	—	—
	12/30/91	8,700	—	2,900	740	260	960	—	—	—	—	—	—	—
	3/18/92	4,100	—	1,100	300	120	480	—	—	—	—	—	—	—
	6/17/92	3,000	—	1,800	410	280	610	—	—	—	—	—	—	—
	9/24/92	5,400	—	1,800	410	240	600	—	—	—	—	—	—	—
	12/10/92	6,600	—	1,700	330	170	580	—	—	—	—	—	—	—
	3/9/93	5,200	—	1,300	210	120	530	—	—	—	—	—	—	—
	9/16/93	7,600	—	3,400	380	350	1,100	—	—	—	—	—	—	—
	4/4/94	5,100	—	2,000	110	210	510	—	—	—	—	—	—	—
	10/13/94	5,900	—	1,600	65	150	420	—	—	—	—	—	—	—
	4/18/95	26,000	—	3,500	140	410	940	—	—	—	—	—	—	—
	10/6/95	18,000	—	2,800	57	230	540	—	—	—	—	—	—	—
	2/7/96	7,100	—	2,300	ND	160	230	82	—	—	—	—	—	—
	5/1/97	12,000	—	2,300	60	290	300	260	—	—	—	—	—	—
	12/3/97	4,700	—	3,100	24	130	200	440	—	—	—	—	—	—
	3/17/98	9,300	—	3,100	64	190	280	490	—	—	—	—	—	—
	6/10/98	11,000	—	3,700	160	260	380	390	—	—	—	—	—	—
	9/30/98	9,800	—	2,700	75	240	290	470	—	—	—	—	—	—
	3/16/99	9,600	—	3,500	59	300	300	490	—	—	—	—	—	—
	11/2/99	7,300	—	2,600	25	140	130	440	—	—	—	—	—	—
	6/16/00	14,000	—	5,900	110	420	460	830	—	—	—	—	—	—
	10/3/00	5,000	—	1,500	20	76	62	520	—	—	—	—	—	—
	1/9/01	4,600	—	1,400	16	110	120	580	—	—	—	—	—	—
	7/12/01	8,700	—	3,800	66	260	300	650	—	—	—	—	—	—
	1/4/02	7,100	—	2,200	<50	170	140	650	—	—	—	—	—	—
	6/11/02	14,000	—	5,400	160	430	490	740	—	—	—	—	—	—
	12/18/02	4,100	—	1,700	<12.5	<25	660	—	—	—	—	—	—	—
	3/27/03	7,000	—	3,100	170	<50	120	990	—	—	—	—	—	—
	9/25/03	8,300	—	5,000	40	290	84	640	—	—	—	—	—	—
	3/24/05	5,800	—	1,100	64	100	110	160	<2.5	<2.5	<2.5	<2.5	750	<2.5
	5/13/05	9,300	—	1,800	400	160	600	170	<2.5	<2.5	<2.5	<2.5	710	<2.5
	9/16/05	6,600	—	1,100	21	90	89	170	<2.5	<2.5	<2.5	<2.5	730	<2.5

TABLE 3
GROUNDWATER ANALYTICAL DATA
 Rotten Robbie Service Station #40
 2515 Guerneville Road, Santa Rosa, California

Sample ID	Date	TPH as		Benzene	Toluene	Ethyl benzene	Xylenes	Total	Five Fuel Oxygenates			1,2-DCA	EDB
		Gasoline (ug/L)	Diesel (ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	MTBE (ug/L)	DPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)
MW-6	6/13/90	41000	...	12000	2000	1000	3100	...	...	...	...	...	...
	9/16/90	17300	...	8700	610	260	1300	...	...	...	...	...	...
	12/20/90	5100	...	710	93	91	220	...	...	...	...	...	...
	3/20/91	11000	...	4800	160	480	900	...	...	...	...	...	...
	6/19/91	25000	...	6600	750	1700	3300	...	...	...	...	...	...
	9/26/91	14000	...	5400	920	720	2500	...	...	...	...	...	...
	12/30/91	22000	...	2800	1100	1500	4700	...	...	...	...	...	...
	3/18/92	2400	...	750	ND	180	200	...	...	...	...	...	...
	6/17/92	6100	...	3300	ND	1200	1400	...	...	...	...	...	...
	9/24/92	19000	...	3700	450	1500	2100	...	...	...	...	...	...
	12/10/92	13000	...	2100	190	740	1500	...	...	...	...	...	...
	3/9/93	2700	...	590	ND	120	160	...	...	...	...	...	...
	9/16/93	2900	...	990	59	160	280	...	...	...	...	...	...
	4/4/94	1800	...	100	2.2	34	32	...	...	...	...	...	...
	10/13/94	2700	...	680	19	100	230	...	...	...	...	...	...
	4/18/95	1400	...	100	2.0	10	270	...	...	...	...	...	...
	10/6/95	5600	...	820	18	130	350	...	...	...	...	...	...
	2/7/96	420	...	15	ND	6.6	0.83	17	...	...	...	...	...
	5/1/97	470	...	74	20	13	26	21	...	...	...	...	...
	12/3/97	220	...	36	0.73	3.8	9.4	14	...	...	...	...	...
	3/17/98	72	...	75	<0.50	<0.50	<0.50	340	...	...	...	...	...
	9/30/98	1800	...	390	11	57	71	46	...	...	...	...	...
	3/16/99	120	...	190	3.1	0.89	2.9	140	...	...	...	...	...
	11/2/99	680	...	180	5.0	16	13	21	...	...	...	...	...
	6/16/00	450	...	69	<2.5	6.9	6.1	420	...	...	...	...	...
	10/3/00	550	...	120	2.7	9.2	6.0	29	...	...	...	...	...
	1/9/01	290	...	63	2.0	6.4	6.6	74	...	...	...	...	...
	7/12/01	420	...	65	<2.5	6.2	6.1	74	...	...	...	...	...
	1/4/02	190	...	87	<0.50	0.97	<0.50	49	...	...	...	...	...
	6/11/02	<250	...	5.4	<2.5	<2.5	<5.0	400	...	...	...	...	...
	12/18/02	320	...	120	<2.5	<2.5	<5.0	100	...	...	...	...	...
	3/27/03	<250	...	<2.5	<2.5	<5.0	200	...	...	...	...	...	...
	9/25/03	530	...	<1.0	<1.0	<2.0	16	...	...	...	...	...	...
	3/24/05	<50	...	<0.50	<0.50	<0.50	12	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	5/13/05	<50	...	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/16/05	100	...	7.3	<0.50	0.81	<0.50	15	<0.50	<0.50	<0.50	<0.50	<0.50
MW-7	3/9/93	ND	...	ND	ND	ND	ND	...	...	...	...	...	...
	9/16/93	...	...	...	...	...	...	...	...	...	...	...	...
	4/4/94	...	...	...	...	...	...	...	...	...	...	...	...
	10/13/94	...	...	...	...	...	...	...	...	...	...	...	...
	4/18/95	...	...	...	...	...	...	...	...	...	...	...	...
	10/6/95	...	Destroyed	...	...	...	...	...	...	...	...	...	...

TABLE 3
GROUNDWATER ANALYTICAL DATA
 Rotten Robbie Service Station #40
 2515 Guerneville Road, Santa Rosa, California

Sample ID	Date	TPH as Gasoline (ug/L)	Diesel (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl benzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	DPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	1,2-DCA (ug/L)	EDB (ug/L)
MW-8	3/9/93	7100	---	170	---	---	---	---	---	---	---	---	---	---
	4/4/94	---	---	---	---	---	---	---	---	---	---	---	---	---
	10/13/94	---	---	---	---	---	---	---	---	---	---	---	---	---
	4/18/95	---	---	---	---	---	---	---	---	---	---	---	---	---
	10/6/95	---	---	---	---	---	---	---	---	---	---	---	---	---
	2/7/96	---	---	---	---	---	---	---	---	---	---	---	---	---
	3/17/98	87	---	0.9	<0.50	<0.50	<0.50	<5.0	---	---	---	---	---	---
	6/10/98	2400	---	79	9.5	5.5	27	86	---	---	---	---	---	---
	9/30/98	380	---	48	0.60	10	<0.50	<5.0	---	---	---	---	---	---
	3/16/99	65	---	<0.50	<0.50	<0.50	<0.50	<5.0	---	---	---	---	---	---
	11/2/99	<50	---	<0.50	<0.50	<0.50	<0.50	<5.0	---	---	---	---	---	---
	6/16/00	<50	---	<0.50	<0.50	<0.50	<0.50	<5.0	---	---	---	---	---	---
	10/3/00	<50	---	<0.50	<0.50	<0.50	<0.50	<5.0	8.4	---	---	---	---	---
	1/9/01	<50	---	<0.50	<0.50	<0.50	<0.50	<5.0	8.1	---	---	---	---	---
	7/12/01	<50	---	<0.50	<0.50	<0.50	<0.50	<5.0	---	---	---	---	---	---
	1/4/02	<50	---	<0.50	<0.50	<0.50	<0.50	<5.0	---	---	---	---	---	---
	6/11/02	<50	---	<0.50	<0.50	<0.50	<0.50	<5.0	---	---	---	---	---	---
	12/18/02	<50	---	<0.50	<0.50	<0.50	<0.50	<5.0	---	---	---	---	---	---
	3/27/03	<50	---	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	---	---	---	---	---
	9/25/03	<50	---	<0.50	<0.50	<0.50	<0.50	<1.0	2.7	---	---	---	---	---
	9/16/05	52	---	<0.50	<0.50	<0.50	<0.50	<1.0	2.9	---	---	---	---	---
MW-11	3/24/05	---	---	---	<0.50	---	---	0.68	<0.50	<0.50	<5.0	<0.50	<0.50	<0.50
	5/13/05	<50	---	---	<0.50	---	---	---	4.1	<0.50	<0.50	<5.0	<0.50	<0.50
	9/16/05	---	---	---	---	---	---	---	---	---	---	---	---	---

NOTES:

TPH - Total Petroleum Hydrocarbons

MTBE - Methyl Tertiary Butyl Ether

DPE - Diisopropyl Ether

ETBE - Ethyl Tertiary Butyl Ether

TAME - Tertiary Amyl Methyl Ether

TBA - Tertiary Butanol

1,2-DCA - 1,2-Dichloroethane

EDB - Ethylene dibromide

ug/L - micrograms per Liter

--- - Not sampled

MW-11 is the responsibility of another consultant

APPENDIX A

APEX STANDARD OPERATING PROCEDURES

APEX ENVIROTECH, INC.
STANDARD OPERATING PROCEDURES
Quarterly Monitoring Reports

SOP – 4
SAMPLE IDENTIFICATION AND CHAIN-OF-CUSTODY PROCEDURES

Sample identification and chain-of-custody procedures ensure sample integrity as well as document sample possession from the time of collection to ultimate disposal. Each sample container submitted for analysis is labeled to identify the job number, date, time of sample collection, a sample number unique to the sample, any in-field measurements made, other pertinent field observations also recorded on the field excavation or boring logs.

Chain-of-custody forms are used to record possession of the sample from time of collection to arrival at the laboratory. During shipment, the person with custody of the samples will relinquish them to the next person by signing the chain-of-custody form(s) and noting the date and time. The sample control officer at the laboratory will verify sample integrity, correct preservation, confirm collection in the proper container(s), and ensure adequate volume for analysis.

If these conditions are met, the samples will be assigned unique laboratory log numbers for identification throughout analysis and reporting. The log numbers will be recorded on the chain-of-custody forms and in the legally-required log book maintained in the laboratory. The sample description, date received, client's name, and any other relevant information will also be recorded.

SOP – 5
LABORATORY ANALYTICAL QUALITY ASSURANCE AND CONTROL

In addition to routine instrument calibration, replicates, spikes, blanks, spiked blanks, and certified reference materials are routinely analyzed at method-specific frequencies to monitor precision and bias. Additional components of the laboratory Quality Assurance/Quality Control program include:

- 1 Participation in state and federal laboratory accreditation/certification programs;
- 2 Participation in both U.S. EPA Performance Evaluation studies (WS and WP studies) and inter-laboratory performance evaluation programs;
- 3 Standard operating procedures describing routine and periodic instrument maintenance;
- 4 "out-of-Control"/Corrective Action documentation procedures; and,
- 5 Multi-level review of raw data and client reports

SOP – 7
GROUNDWATER PURGING AND SAMPLING

Prior to water sampling, each well is purged by evacuating a minimum of three wetted well-casing volumes of groundwater. When required, purging will continue until either the discharge water temperature, conductivity, or pH stabilize, a maximum of ten wetted-casing volumes of groundwater have been recovered, or the well is bailed dry.

When practical, the groundwater sample should be collected when the water level in the well recovers to at least 80 percent of its static level.

The sampling equipment consists of either a "Teflon" bailer, PVC bailer, or stainless steel bladder pump with a "Teflon" bladder. If the sampling system is dedicated to the well, then the bailer is usually "Teflon," but the bladder pump is PVC with a polypropylene bladder. In general and depending on the intended laboratory analysis, 40-milliliter glass, volatile organic analysis (VOA) vials, with "Teflon" septa, are used as sample containers.

SOP – 12
MEASURING LIQUID LEVELS USING WATER LEVEL METER OR INTERFACE PROBE

Field equipment used for liquid-level gauging typically includes the measuring instrument (water-level meter or interface probe and product bailer(s)). The field kit also includes cleaning supplies (buckets, solution, spray bottles, and deionized water) to be used in cleaning the equipment between wells.

Prior to measurements, the instrument tip is lowered into the well until it touches bottom. Using the previously established top-of-casing or top-of-box (i.e., wellhead vault) point, the probe cord (or halyard) is marked and a measuring tape (graduated in hundredths of a foot) is used to determine the distance between the probe end and the marking on the cord. This measurement is then recorded on the liquid-level data sheet as the "Measured Total Depth" of the well.

When necessary in using the interface probe to measure liquid levels, the probe is first electrically grounded to either the metal stove pipe or another metal object nearby. When no ground is available, reproducible measurements can be obtained by clipping the ground lead to the handle of the interface probe case.

The probe tip is then lowered into the well and submerged in the groundwater. An oscillating (beeping) tone indicates the probe is in water. The probe is slowly raised until either the oscillating tone ceases or becomes a steady tone. In either case, this is the depth-to-water (DTW) indication of the DTW measurement is made accordingly. The steady tone indicates floating liquid hydrocarbons (FLH). In this case, the depth-to-product (DTP) indication and the DTP measurement is made accordingly.

The process of lowering and raising the probe must be repeated several times to ensure accurate measurements. The DTW and DTP measurements are recorded on the liquid-level data sheet. When FLH are indicated by the probe's response, a product bailer is lowered partially through the FLH water interface to confirm the FLH thickness, particularly in cases where the FLH layer is quite thin. This measurement is recorded on the data sheet as "FLH thickness".

In order to avoid cross-contamination of wells during the liquid-level measurement process, wells are measured in the order of "clean" to "dirty" (where such information is available). In addition, all measurement equipment is cleaned with solution and thoroughly rinsed with deionized water before use, between measurements in respective wells, and at the completion of the day's use.

APPENDIX B

FIELD DATA SHEETS



Monitoring Data

Project: Rotter Robbie Site # 40
 Project Number: R0B01.001
 Date: 9/16/05
 Recorded By: RCM

WELL	TIME	TEMP (deg F)	pH	COND. (µS/cm)	DISSOLVED OXYGEN	TOTAL VOLUME REMOVED	COMMENTS/OBSERVATIONS
MW-2	1010	20.8	6.2	623		8	1.5 gpm
	1016	20.4	6.2	767		16	
	1021	19.9	6.2	698		24	Samp lab @ 1440
	1031	21.1	6.4	321		8	1.5 gpm
MW-3	1037	20.0	6.4	1013		16	
	1043	20.2	6.7	895		25	Samp lab @ 1450
	1054	20.6	6.3	878		6	1.5 gpm over
	1058	20.4	6.4	888		12	
MW-4	1102	20.6	6.4	834		18	Samp lab @ 1500
	1137	19.4	6.2	989		7	1.5 gpm
	1141	20.5	6.2	999		14	Well dry @ 14 gal/second
						21 sec	Samp lab @ 1510



Monitoring Data

Project:

Project Number: ROBOL 001

Date: 9/16/05

Recorded By: RCM

WELL	TIME	TEMP (deg C)	pH	COND. (µS/cm)	DISSOLVED OXYGEN	TOTAL VOLUME REMOVED	COMMENTS/OBSERVATIONS
MW-1	1200	22.1	6.2	7460		14	
	1210	21.3	6.3	1243		28	
	1219	21.2	6.4	336		42	Sampled @ 1520 1.5 gpm
MW-8	1345	20.6	6.4	582		7	
	1349	20.8	6.3	548		14	* Needs New well box & lid ASAP
	1354	20.5	6.3	568		21	Sampled @ 1530 1.5 gpm
MW-5	1410	22.3	5.9	700		6	
	1414	21.3	6.0	671		12	Well dry @ 12 gal purged
	1418					18	Sampled @ 1540 1.5 gpm

APPENDIX C

LABORATORY ANALYTICAL REPORT AND

CHAIN-OF-CUSTODY FORM



2795 2nd Street Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4808

c/c

ANALYTICAL LLC

Chain-of-Custody Record and Analysis Request

California EDF Report? Yes No

Recommended but not mandatory to complete this section:

Sampling Company Log Code:

APEF

Analysis Request

Global ID:	T0609700545	Sample Type:	Soil	Sample Matrix:	Soil
EDF Deliverable To (Email Address):	rwestrup@apexenvirotech.com	Preservative:	None	Test Method:	Lead (7421/239.2) TOTAL <input type="checkbox"/> W.E.T. <input type="checkbox"/>
Project Name:	Rotten Robbie Station #40	Container:	SLEEVES	Test Method:	Volatile Halocarbons (EPA 8260B)
Project Address:	2515 Guerneville Road, Santa Rosa	Sampling Date:	11/16/05	Test Method:	EPA 8260B (Full List)
Sample Designation:	MW-1	Sampling Time:	120	Test Method:	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)
	MW-2		1440	Test Method:	7 Oxygentates (8260B)
	MW-3		1450	Test Method:	5 Oxygentates/TPH Gases (8260B)
	MW-4		1570	Test Method:	7 Oxygentates/TPH Gases (8260B)
	MW-5		1540	Test Method:	5 Oxygenates/BTEX/MTBE (8260B)
	MW-6		1500	Test Method:	TPH Gas/BTEX/MTBE (8021B/M8015)
	MW-8		1530	Test Method:	TPH as Diesel (M8015)
				Test Method:	TPH as Motor Oil (M8015)
				Test Method:	BTEX/TPH Gas/MTBE (8021B/M8015)
				Test Method:	BTEX (8021B)

Relinquished by:	Date Received by:	Time Received by:	Remarks:
<i>C. Morgan</i>	11/16/05	2000	Sample Received
<i>C. Morgan</i>	Initial Date	Initial Time	Temp °C 2.7 ^o Therm. ID# 12-1
<i>C. Morgan</i>	11/16/05	045	Temp °C 2.7 ^o Date 01/16/05
<i>C. Morgan</i>	11/16/05	1730	Time 1730 Coolant present: <input checked="" type="checkbox"/> N
Relinquished by:	Date Received by:	Time Received by:	Bill to:
<i>Kiff</i> <i>Barry Arent</i>	01/05	1347	



Report Number : 46036

Date : 9/27/2005

Rebekah Westrup
Apex Envirotech Inc
11244 Pyrites Way
Gold River, CA 95670-4481

Subject : 7 Water Samples
Project Name : Rotten Robbie Station #40
Project Number : ROB01 001-QM

Dear Ms Westrup,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

A handwritten signature in black ink that reads "Joel Kiff".

Joel Kiff



Report Number : 46036

Date : 9/27/2005

Project Name : Rotten Robbie Station #40

Project Number : ROB01.001-QM

Sample : MW-1

Matrix : Water

Lab Number : 46036-01

Sample Date : 9/16/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	1100	2.0	ug/L	EPA 8260B	9/26/2005
Toluene	10	2.0	ug/L	EPA 8260B	9/26/2005
Ethylbenzene	36	2.0	ug/L	EPA 8260B	9/26/2005
Total Xylenes	49	2.0	ug/L	EPA 8260B	9/26/2005
Methyl-t-butyl ether (MTBE)	62	2.0	ug/L	EPA 8260B	9/26/2005
Diisopropyl ether (DIPE)	2.7	2.0	ug/L	EPA 8260B	9/26/2005
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	9/26/2005
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	9/26/2005
Tert-Butanol	650	9.0	ug/L	EPA 8260B	9/26/2005
TPH as Gasoline	4200	200	ug/L	EPA 8260B	9/26/2005
1,2-Dichloroethane	< 2.0	2.0	ug/L	EPA 8260B	9/26/2005
1,2-Dibromoethane	< 2.0	2.0	ug/L	EPA 8260B	9/26/2005
Toluene - d8 (Surr)	98.2		% Recovery	EPA 8260B	9/26/2005
4-Bromofluorobenzene (Surr)	99.2		% Recovery	EPA 8260B	9/26/2005
Dibromofluoromethane (Surr)	98.6		% Recovery	EPA 8260B	9/26/2005
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	9/26/2005

Approved By: 
Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800



Report Number : 46036

Date : 9/27/2005

Project Name : Rotten Robbie Station #40

Project Number : ROB01.001-QM

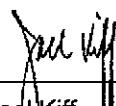
Sample : MW-2

Matrix : Water

Lab Number : 46036-02

Sample Date : 9/16/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Methyl-t-butyl ether (MTBE)	0.73	0.50	ug/L	EPA 8260B	9/21/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	9/21/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/21/2005
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Toluene - d8 (Surr)	91.7		% Recovery	EPA 8260B	9/21/2005
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	9/21/2005
Dibromofluoromethane (Surr)	115		% Recovery	EPA 8260B	9/21/2005
1,2-Dichloroethane-d4 (Surr)	105		% Recovery	EPA 8260B	9/21/2005

Approved By:  Joel Kiff



Report Number : 46036

Date : 9/27/2005

Project Name : Rotten Robbie Station #40

Project Number : ROB01.001-QM

Sample : MW-3

Matrix : Water

Lab Number : 46036-03

Sample Date : 9/16/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Methyl-t-butyl ether (MTBE)	3.2	0.50	ug/L	EPA 8260B	9/22/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	9/22/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/22/2005
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	9/22/2005
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	9/22/2005
Dibromofluoromethane (Surr)	110		% Recovery	EPA 8260B	9/22/2005
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	9/22/2005

Approved By: 
Joel Kiff



Report Number : 46036

Date : 9/27/2005

Project Name : Rotten Robbie Station #40

Project Number : ROB01.001-QM

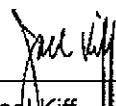
Sample : MW-4

Matrix : Water

Lab Number : 46036-04

Sample Date : 9/16/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Methyl-t-butyl ether (MTBE)	3.0	0.50	ug/L	EPA 8260B	9/22/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	9/22/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/22/2005
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	9/22/2005
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	9/22/2005
Dibromofluoromethane (Surr)	112		% Recovery	EPA 8260B	9/22/2005
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	9/22/2005

Approved By:  Joel Kiff



Report Number : 46036

Date : 9/27/2005

Project Name : Rotten Robbie Station #40

Project Number : ROB01.001-QM

Sample : MW-5

Matrix : Water

Lab Number : 46036-05

Sample Date : 9/16/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	1100	2.5	ug/L	EPA 8260B	9/22/2005
Toluene	21	2.5	ug/L	EPA 8260B	9/22/2005
Ethylbenzene	90	2.5	ug/L	EPA 8260B	9/22/2005
Total Xylenes	89	2.5	ug/L	EPA 8260B	9/22/2005
Methyl-t-butyl ether (MTBE)	170	2.5	ug/L	EPA 8260B	9/22/2005
Diisopropyl ether (DIPE)	< 2.5	2.5	ug/L	EPA 8260B	9/22/2005
Ethyl-t-butyl ether (ETBE)	< 2.5	2.5	ug/L	EPA 8260B	9/22/2005
Tert-amyl methyl ether (TAME)	< 2.5	2.5	ug/L	EPA 8260B	9/22/2005
Tert-Butanol	730	15	ug/L	EPA 8260B	9/22/2005
TPH as Gasoline	6600	250	ug/L	EPA 8260B	9/22/2005
1,2-Dichloroethane	< 2.5	2.5	ug/L	EPA 8260B	9/22/2005
1,2-Dibromoethane	< 2.5	2.5	ug/L	EPA 8260B	9/22/2005
Toluene - d8 (Surr)	94.4		% Recovery	EPA 8260B	9/22/2005
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	9/22/2005
Dibromofluoromethane (Surr)	112		% Recovery	EPA 8260B	9/22/2005
1,2-Dichloroethane-d4 (Surr)	104		% Recovery	EPA 8260B	9/22/2005

Approved By: Joel Kiff



Report Number : 46036

Date : 9/27/2005

Project Name : Rotten Robbie Station #40

Project Number : ROB01.001-QM

Sample : MW-6

Matrix : Water

Lab Number : 46036-06

Sample Date : 9/16/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	7.3	0.50	ug/L	EPA 8260B	9/21/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Ethylbenzene	0.81	0.50	ug/L	EPA 8260B	9/21/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Methyl-t-butyl ether (MTBE)	15	0.50	ug/L	EPA 8260B	9/21/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Tert-Butanol	6.9	5.0	ug/L	EPA 8260B	9/21/2005
TPH as Gasoline	100	50	ug/L	EPA 8260B	9/21/2005
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	9/21/2005
4-Bromofluorobenzene (Surr)	98.9		% Recovery	EPA 8260B	9/21/2005
Dibromofluoromethane (Surr)	105		% Recovery	EPA 8260B	9/21/2005
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	9/21/2005

Approved By:  Joel Kiff

2795 2nd St , Suite 300 Davis, CA 95616 530-297-4800



Report Number : 46036

Date : 9/27/2005

Project Name : Rotten Robbie Station #40

Project Number : ROB01.001-QM

Sample : MW-8

Matrix : Water

Lab Number : 46036-07

Sample Date : 9/16/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Methyl-t-butyl ether (MTBE)	0.68	0.50	ug/L	EPA 8260B	9/22/2005
Diisopropyl ether (DIPE)	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	9/22/2005
TPH as Gasoline	52	50	ug/L	EPA 8260B	9/22/2005
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	9/22/2005
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	9/22/2005
Dibromofluoromethane (Surr)	110		% Recovery	EPA 8260B	9/22/2005
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	9/22/2005

Approved By: Joel Kiff

QC Report : Method Blank Data

Project Name : Rotten Robbie Station #40

Project Number : ROB01.001-QM

Report Number : 46036

Date : 9/27/2005

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed	Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/26/2005	Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/26/2005	Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/26/2005	Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/26/2005	Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	9/26/2005	Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Diisopropyl ether (DPE)	< 0.50	0.50	ug/L	EPA 8260B	9/26/2005	Diisopropyl ether (DPE)	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	9/26/2005	Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	9/26/2005	Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	9/26/2005	Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	9/21/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/26/2005	TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/21/2005
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	9/26/2005	1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	9/26/2005	1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Toluene - d8 (Sur)	97.6	%		EPA 8260B	9/26/2005	Toluene - d8 (Sur)	91.9	%		EPA 8260B	9/21/2005
4-Bromofluorobenzene (Sur)	98.9	%		EPA 8260B	9/26/2005	4-Bromofluorobenzene (Sur)	102	%		EPA 8260B	9/21/2005
Dibromofluoromethane (Sur)	98.0	%		EPA 8260B	9/26/2005	Dibromofluoromethane (Sur)	116	%		EPA 8260B	9/21/2005
1,2-Dichloroethane-d4 (Sur)	101	%		EPA 8260B	9/26/2005	1,2-Dichloroethane-d4 (Sur)	108	%		EPA 8260B	9/21/2005
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005	Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005	Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005	Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005	Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005	Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Diisopropyl ether (DPE)	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005	Diisopropyl ether (DPE)	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005	Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005	Tert-amyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	9/21/2005	Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	9/22/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/21/2005	TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/22/2005
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005	1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005	1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	9/22/2005
Toluene - d8 (Sur)	99.9	%		EPA 8260B	9/21/2005	Toluene - d8 (Sur)	90.5	%		EPA 8260B	9/22/2005
4-Bromofluorobenzene (Sur)	102	%		EPA 8260B	9/21/2005	4-Bromofluorobenzene (Sur)	102	%		EPA 8260B	9/22/2005
Dibromofluoromethane (Sur)	109	%		EPA 8260B	9/21/2005	Dibromofluoromethane (Sur)	117	%		EPA 8260B	9/22/2005
1,2-Dichloroethane-d4 (Sur)	102	%		EPA 8260B	9/21/2005	1,2-Dichloroethane-d4 (Sur)	105	%		EPA 8260B	9/22/2005

KIFF ANALYTICAL, LLC

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530-297-4800

Approved By:

Joel Kiff



QC Report : Method Blank Data**Project Name : Rotten Robbie Station #40****Project Number : ROB01.001-QM**

Report Number : 46036
 Date : 9/27/2005

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Diisopropyl ether (DPE)	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Tert-allyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	9/21/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/21/2005
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Toluene - d8 (Sur)	101	%		EPA 8260B	9/21/2005
4-Bromofluorobenzene (Sur)	98.4	%		EPA 8260B	9/21/2005
Dibromofluoromethane (Sur)	106	%		EPA 8260B	9/21/2005
1,2-Dichloroethane-d4 (Sur)	102	%		EPA 8260B	9/21/2005

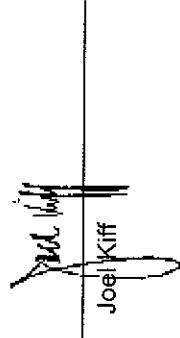
<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
Benzene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Toluene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Diisopropyl ether (DPE)	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Ethyl-t-butyl ether (ETBE)	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Tert-allyl methyl ether (TAME)	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Tert-Butanol	< 5.0	5.0	ug/L	EPA 8260B	9/21/2005
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	9/21/2005
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	9/21/2005
Toluene - d8 (Sur)	101	%		EPA 8260B	9/21/2005
4-Bromofluorobenzene (Sur)	98.4	%		EPA 8260B	9/21/2005
Dibromofluoromethane (Sur)	106	%		EPA 8260B	9/21/2005
1,2-Dichloroethane-d4 (Sur)	102	%		EPA 8260B	9/21/2005

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:

Joel Kiff



Project Name : Rotten Robbie Station #40

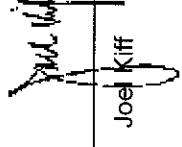
Project Number : ROB01.001-QM

Parameter	Spiked Sample	Sample Value	Spike Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Duplicate Spiked Sample Percent Recov.	Spiked Sample Percent Recov.	Spiked Sample Percent Recov.	Spiked Sample Percent Recov.
Benzene	46101-05	<0.50	39.8	39.9	38.8	38.4	ug/L	EPA 8260B	9/26/05	97.4	96.3	1.14
Toluene	46101-05	<0.50	39.8	39.9	37.5	37.2	ug/L	EPA 8260B	9/26/05	94.1	93.3	0.915
Tert-Butanol	46101-05	<5.0	199	200	190	189	ug/L	EPA 8260B	9/26/05	95.6	94.9	0.758
Methyl-t-Butyl Ether	46101-05	<0.50	39.8	39.9	38.9	39.5	ug/L	EPA 8260B	9/26/05	97.7	99.0	1.24
Benzene	46037-01	<0.50	40.0	40.0	39.3	37.8	ug/L	EPA 8260B	9/21/05	98.3	94.6	3.85
Toluene	46037-01	<0.50	40.0	40.0	37.2	35.1	ug/L	EPA 8260B	9/21/05	93.0	87.7	5.89
Tert-Butanol	46037-01	83	200	200	289	293	ug/L	EPA 8260B	9/21/05	103	105	1.92
Methyl-t-Butyl Ether	46037-01	11	40.0	40.0	47.1	45.7	ug/L	EPA 8260B	9/21/05	90.7	87.2	4.02
Benzene	46036-02	<0.50	40.0	40.0	39.8	39.2	ug/L	EPA 8260B	9/21/05	99.6	98.0	1.65
Toluene	46036-02	<0.50	40.0	40.0	35.1	34.5	ug/L	EPA 8260B	9/21/05	87.7	86.2	1.74
Tert-Butanol	46036-02	<5.0	200	200	186	184	ug/L	EPA 8260B	9/21/05	93.3	92.2	1.19
Methyl-t-Butyl Ether	46036-02	0.73	40.0	40.0	43.2	44.4	ug/L	EPA 8260B	9/21/05	106	109	2.68
Benzene	46001-07	2.2	40.0	40.0	41.4	40.4	ug/L	EPA 8260B	9/22/05	98.0	95.5	2.65
Toluene	46001-07	2.2	40.0	40.0	36.5	35.4	ug/L	EPA 8260B	9/22/05	85.7	83.2	3.06
Tert-Butanol	46001-07	<5.0	200	200	176	177	ug/L	EPA 8260B	9/22/05	87.8	88.4	0.678
Methyl-t-Butyl Ether	46001-07	<0.50	40.0	40.0	43.0	42.7	ug/L	EPA 8260B	9/22/05	108	107	0.861
Benzene	46036-06	7.3	40.0	40.0	43.7	43.3	ug/L	EPA 8260B	9/21/05	91.0	90.0	1.17
Toluene	46036-06	<0.50	40.0	40.0	39.9	39.4	ug/L	EPA 8260B	9/21/05	99.7	98.6	1.13

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By: Joel Kiff



QC Report : Matrix Spike/ Matrix Spike Duplicate

Report Number : 46036
Date : 9/27/2005

Project Name : **Rotten Robbie Station #40**

Project Number : **ROB01.001-QM**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Analysis Method	Date Analyzed	Duplicate Spiked Sample					
						ug/L	EPA 8260B	9/21/05	99.4	102	102	102	102	
Tert-Butanol	46036-06	6.9	200	200	206	210	EPA 8260B	9/21/05	99.4	102	2.16	70-130	25	
Methyl-t-Butyl Ether	46036-06	15	40.0	40.0	54.2	54.9	ug/L	EPA 8260B	9/21/05	97.6	99.2	1.67	70-130	25


Approved By: **Joe Kiff**

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Project Name : Rotten Robbie Station #40

Project Number : ROB01.001-QM

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov.
Benzene	40.0	ug/L	EPA 8260B	9/26/05	99.0	70-130
Toluene	40.0	ug/L	EPA 8260B	9/26/05	95.2	70-130
Tert-Butanol	200	ug/L	EPA 8260B	9/26/05	98.1	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	9/26/05	101	70-130
Benzene	40.0	ug/L	EPA 8260B	9/21/05	95.4	70-130
Toluene	40.0	ug/L	EPA 8260B	9/21/05	92.9	70-130
Tert-Butanol	200	ug/L	EPA 8260B	9/21/05	102	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	9/21/05	87.4	70-130
Benzene	40.0	ug/L	EPA 8260B	9/21/05	89.5	70-130
Toluene	40.0	ug/L	EPA 8260B	9/21/05	84.0	70-130
Tert-Butanol	200	ug/L	EPA 8260B	9/21/05	86.2	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	9/21/05	94.4	70-130
Benzene	40.0	ug/L	EPA 8260B	9/22/05	100	70-130
Toluene	40.0	ug/L	EPA 8260B	9/22/05	92.2	70-130
Tert-Butanol	200	ug/L	EPA 8260B	9/22/05	92.4	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	9/22/05	108	70-130
Benzene	40.0	ug/L	EPA 8260B	9/21/05	98.7	70-130

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:



 Joe Kiff

QC Report : Laboratory Control Sample (LCS)

Project Name : **Rotten Robbie Station #40**

Project Number : **ROB01.001-QM**

Report Number : 46036
Date : 9/27/2005

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Toluene	40.0	ug/L	EPA 8260B	9/21/05	102	70-130
Tert-Butanol	200	ug/L	EPA 8260B	9/21/05	97.4	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	9/21/05	97.7	70-130

KIFF ANALYTICAL, LLC
2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Approved By:

Joe Kiff

APPENDIX D

NCRWQCB LETTER DATED DECEMBER 3, 2004

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KOB01.001



DEC 06 2004

California Regional Water Quality Control Board

North Coast Region

William R. Massey, Chairman



Arnold
Schwarzenegger
Governor

Terry Tamminen
Secretary for
Environmental
Protection

<http://www.swrcb.ca.gov/rwqcb/>
5550 Skylane Boulevard, Suite A, Santa Rosa, California 95403
Phone 1-877-721-9203 Office (707) 576-2220 FAX (707) 523-0135

December 3, 2004

Mr. Tom Robinson
Mission Trail Oil Company
4520 Williams Road
San Jose, CA 95129

Dear Mr. Robinson:

Subject: Comments on Workplan for Installation of Ozone Sparging
Remediation System

File: Rotten Robbie #40, 2515 Guerneville Road, Santa Rosa, Case
No. 1TSR022

Regional Water Board staff have reviewed the July 26, 2004 Workplan for Installation of Ozone Sparging Remediation System prepared by APEX EnviroTech, Inc. for 2515 Guerneville Road in Santa Rosa. The proposal is acceptable with the following comments:

- Please contact Ms. Andrea Jensen at (707) 543-3542 regarding Santa Rosa Fire and Community Development Departments regulatory and permit requirements.
- Ozone sparging does not require a permit from our agency. However, baseline parameters must be determined prior to the onset of ozone injection, which are monitored for during the project. They include dissolved oxygen, ORP, temperature, pH, bromide, bromate, dissolved hexavalent chromium, dissolved vanadium, dissolved selenium and dissolved molybdenum. The dissolved oxygen, pH and ORP shall be measured in the field. The laboratory-reporting limit for hexavalent chromium and bromate should be no higher than 5 and 10 ug/l, respectively.
- The gasoline and MtBE plumes have migrated off site to the south based on the analytical results for groundwater samples collected in MW-11 installed in the medium strip of Guerneville Road for the investigation at 2500 Guerneville Road. Please make arrangement for access to this well and include it in your sampling schedule. You may contact Mr. Brian Wingard with Winzler & Kelly at (707) 523-1010 regarding well access.
- Please submit a map showing the ozone system piping/trench, generator and delivery system pad locations.

California Environmental Protection Agency

Recycled Paper

December 3, 2004

- The borings must be logged during ozone sparge well installation. Soil samples for chemical analysis should also be collected from areas of obvious impact, particularly beneath the canopy adjacent to the fuel islands. Soil samples must be preserved using EPA Method 5035.

Please notify me in advance of sparge well installations so I can conduct a site inspection during field activities. If you have any questions, I can be reached at (707) 576-2675.

Sincerely,



Joan Fleck
Engineering Geologist

JEF:clh/120304_JEF_RottenRobbie

Cc: Fire Inspector Andrea Jensen, Santa Rosa Fire Department
Mr. Brian Wingard, Winzler & Kelly, 495 Tesconi Circle, Santa Rosa, CA
95401-4696
Mr. Kasey Jones, APEX EnviroTech, Inc. 11244 Pyrites Way, Gold River, CA
95670
Mr. Ron Michelson, RM Associates, 16401 Meadow Vista Drive, Suite 102, Pioneer, CA
95666